

2009 Radiological Program Improvement Plan

SRNS Nuclear Operations and Radiological Protections Overview

1/27/09

AGENDA

Introduction and Importance of Radiation Safety

- Tony Umek (10 minutes)

Conduct of Operations and RadCon

- Jack Goldenberg (10 minutes)

Step Two: Radiological Improvement Plan

- Jim Stafford (10 minutes)

Eshelman's Approaches

- Roger Eshelman (20 minutes)

Implementation and Summary

- Jim Stafford/Roger Eshelman (10 minutes)

Introduction and Importance of Radiation Safety

Radiological Safety

Tony Umek, ESH&Q, Vice President, SRNS

- **RIGOR**

- SRNS is committed to protecting our workers from all hazards
- When it comes to Radiological Safety, we will not compromise

- **RESULTS**

- Near Term – 5% improvement
- Long Term
 - Challenging ALARA Goals
 - Line Management Ownership
 - Functional Management Leadership

- **RENEWAL**

- We are committed to the SRNS initiative to improve Radiological Safety
- SRNS EVP for Operations – committed to continuous improvement

Radiation Safety (cont')

- **Expectations for Our Radiological Program**
 - All level of Management, Supervision, and Workers must be involved
 - Questioning attitude
 - ▶ *Why are we doing this?*
 - ▶ *Is the condition as I was told?*
 - ▶ *Is there a better way?*
 - ▶ *Am I ready to go to work? and*
 - ▶ *do I have what I need to do the work?*
 - Is this ALARA?
 - If conditions are not as expected – Pause work – Do not proceed
 - Conduct of Operations
 - ▶ *Procedure compliance*
 - ▶ *Good Communications and Documentation*
 - ▶ *Pre-job briefs*
 - ▶ *Post-job / Lessons Learned*



Site Conduct of Operations Improvement Initiative

Site 2009 Radiological Program Improvement Meeting

Jack Goldenberg

ConOps Improvement Initiative

Description: Due to a number of issues identified during Transition, several hiccups since, and DOE/DNFSB perception that we are slipping, a ConOps Improvement Team was chartered and Initiative designed. The Initiative centers on INPO “Operator Fundamentals”.

Condition

Need to Sharpen the ConOps Edge

Immediate Actions Taken

- Formed Team, designed initiative
- ConOps University
- Briefed Senior Staff/DOE/DNFSB
- Re-initiated 2S Committee

Potential Consequence

- Significant Event

Path Forward

- Operations Senior Staff, FM, Champion, and Advisor Briefings Complete
- Evaluation/Mentoring Standard Complete
- “Operator Fundamentals” Briefing for all Operations personnel by 2/25/09
- Initiate ConOps Advisors by 2/25/09
- 2S Interpretive Guidance Directive Complete
- Schedule to Work Off Change Backlog by 1/31/09
- “Tools” – One per month to start 2/09
- Evaluation Process by 4/17/09
- Feedback Process by 4/17/09
- Rollout other Functional Areas starting 5/09
- Review against impending new DOE Order est. 5/09
- More to come

Principles for a Strong Nuclear Safety Culture

- **Everyone is personally responsible for nuclear safety**
- **Leaders demonstrate commitment to safety**
- **Trust permeates the organization**
- **Decision-making reflects safety first**
- **Nuclear technology is recognized as special and unique**
- **A questioning attitude is cultivated**
- **Organizational learning is embraced**
- **Nuclear safety undergoes constant examination**

Operator Fundamentals

- **The essential knowledge, behaviors, and practices that ALL Site Personnel need to apply to perform their assigned tasks safely and effectively.**
 - Monitoring plant conditions and indications closely
 - Controlling plant evolutions precisely
 - Establishing a bias for conservative approach to plant operations
 - Working effectively as a Team
 - Having a solid understanding of plant design and system interrelationships
- **Again, these are applicable to ALL Functional Areas**

OUR GOALS

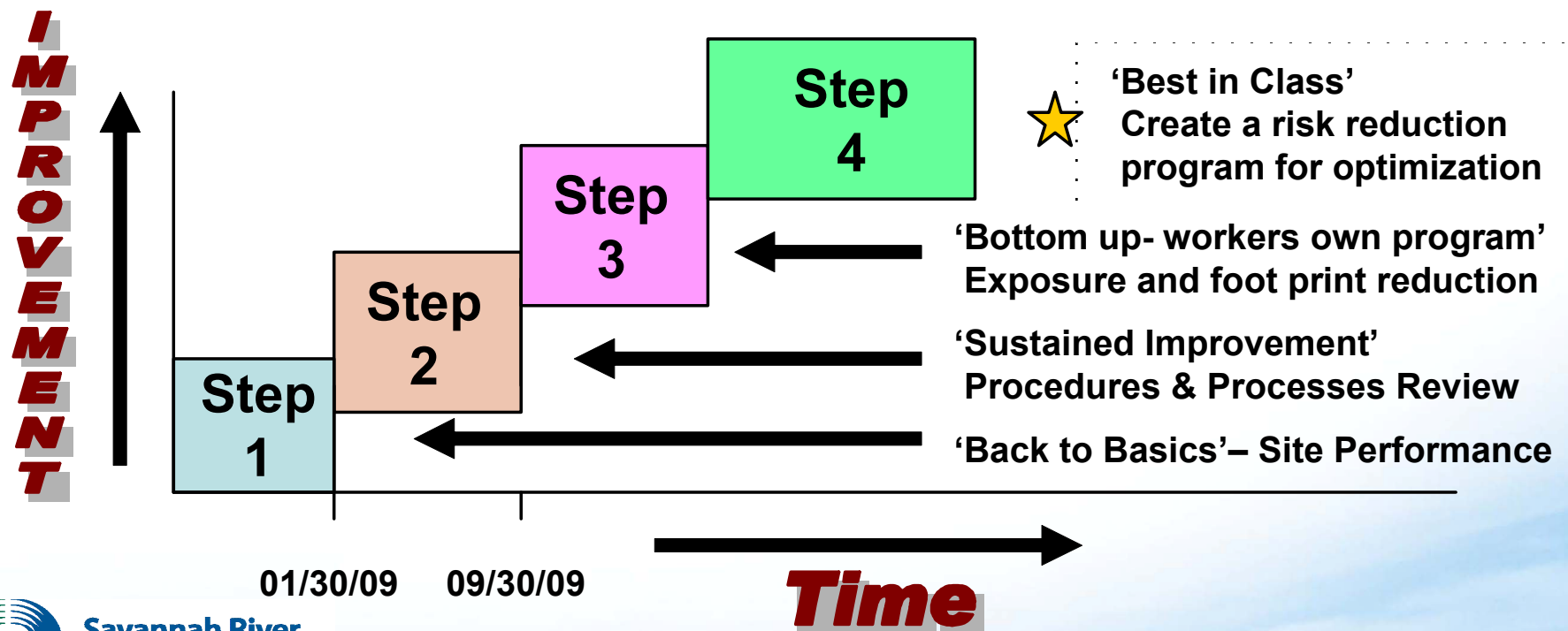
1. Operator Fundamentals are Understood and Re-enforced
2. Enable Us to Move Forward and Execute Significantly Below Event Threshold
3. Build on Our Reputation of
OPERATIONAL EXCELLENCE

Continuous Improvement means that
OPERATIONAL EXCELLENCE
has NO END DATE

Radiological Improvement Plan

Sustained Improvement

Jim Stafford, Radiological
Protection Director, SRNS



Operation's Initiative- Improve Radiological Protection

- **Step 1 Back to Basics**
 - Worker's responsible
 - ALARA
 - Basic Radiological skills and communication
 - Transformation to Step 2 (if improve ORPs rate at least 5%)
 - 14 issues in RadCon Back to Basics Implementation Plan
 - Final action is RIP issuance 1/30/09
- **Step 2 Sustained Improvement**
 - Better procedures and processes
 - Self Assessment program
 - Training Review
- **Step 3 Bottoms-up**
 - Working group involved in planning and oversight
 - Incentivize innovation of workers in ALARA program
- **Step 4 Best in class**
 - Risk based system
 - Significantly enhanced Radiological Protection access control system in place (ProRad replacement)

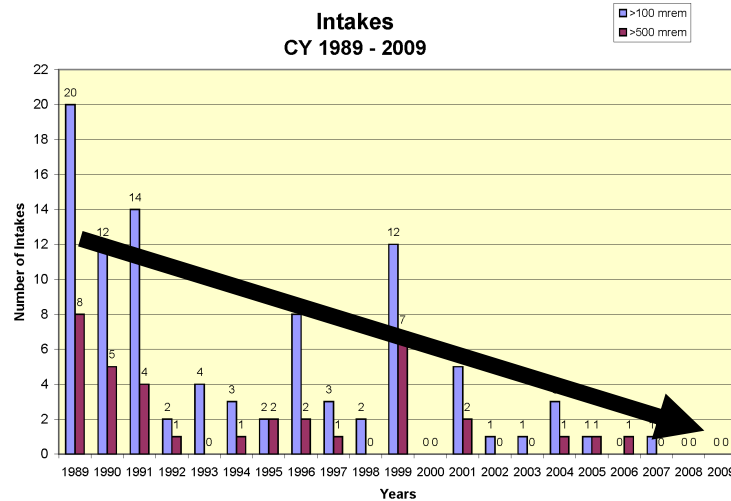
Summary Step 2

- **Path forward**
 - We need to continue improving our process and procedures
 - Help operations with their scope changes and transformation
 - Protect the people, workers, facilities, and the environment
 - Find better ways to train personnel in radiological topics, because the next step is bottom up, where we ask them to be more involved in the radiological program
- **Step 2 “Sustained Improvement”**
 - Currently ~ 20 items identified in draft RIP
 - Review and Update 5Q Procedures and associated procedures
 - Review current Processes for Opportunities
 - Improve RadCon Self-Assessment Process
 - Identify New Metrics to measure performance
 - Incorporate Conduct of Operations Elements
 - Continue metrics for Step 1 “Back to Basic”

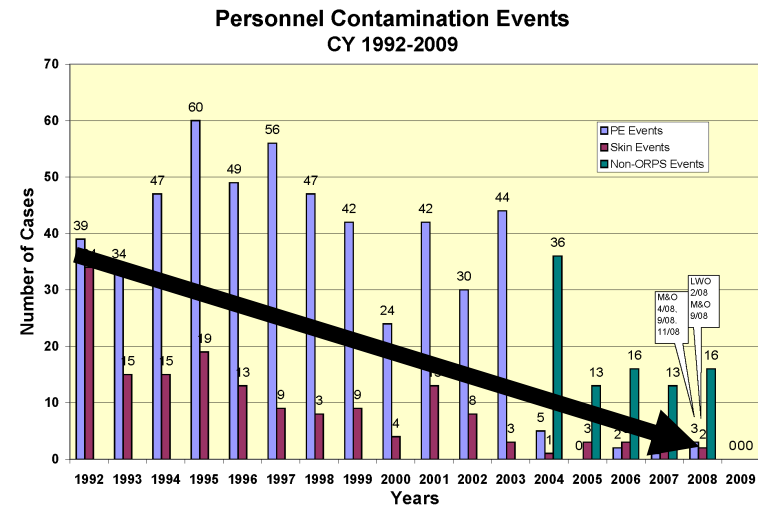
Roger's View (Cont)

- A look at Radiological Protection
 - Roger Eshelman, Executive Vice President, Operation SRNS
 - Co-chair of ALARA Committee
- Roger's Views
 - Back to Basics is a success
 - Goal was 5%, achieved 8%
 - Best Safety quarter in site's history
 - Lowest quarter of exposure of the year
 - **Congratulations and Thanks for Your efforts**

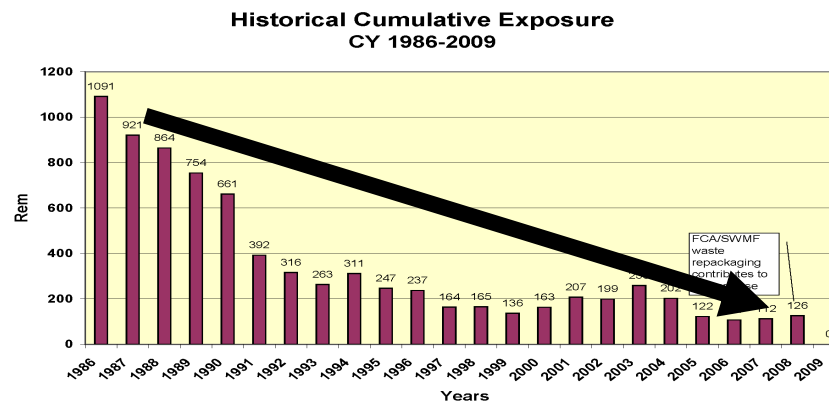
Roger's View (Cont)



Zero Radiological Intakes in FY2009



8% less events in First Quarter 2009



Site Exposure 5 Rems below Goal for FY2008

Roger's View (Cont)

- **So with all these Successes, why am I here?**
 - Culture Changes
 - Transformation of Operation/RadCon
 - Worker's Responsibility/Questioning Attitude
 - ALARA and ALARA Program
 - Assessment/Compliance
 - Training/Qualification/Cross-training
 - Professional Personal Performance

Group Talk – Roger/Jim

- **Please**

- Work Smart and Safely -

- Your personal efforts will make SRNS Successful

- And improve the Site's future

- **Questions for Roger/Jim ?**